

Page 1

Insp.

Stamp

Monday, April 11, 2011 12:37:00 PM Item ID: D3391-023 Accept Setup Start **Revision 1D:** Stop Mid Tube Assembly Item Name: **Start Date:** 4/11/2011 Start Oty: 1.00 **Cust Item ID:** Required Date: 4/15/2011 Reg'd Qty: 1.00 **Customer:** Reference: Start Run **Process Plan:** Tooling: Date: Approvals: Stop Date: SPC (Y/N): Date: QC: Sequence ID/ **Operation** Tool 1D Tool# Plan Reject Set Up/ Accept Reject Work Center ID Description Code Qty **Qty** Number **Run Hours Draw Nbr Revision Nbr** D3391 Rev H 100 0.00 Skidtubes 0.00 Skidtubes Memo Skidtubes 1-Cut tube to finish length as per Dwg D3391 2-Identify as D3391-023 3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1-fwd saddle hole on one side only as per Dwg D3391 4-Open saddles and GHW holes to Ø0.375" exept for fwd-saddle hole of detai 5-Remove .030" from Fwd indexing Ridge as per Dwg D3391 6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391 7-Deburr

> 9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J"\_do not open wearplate holes of section "J"

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391

paint marker,

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W/O:			W	ORK ORDER CHANG	ES				ε.
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Work Order	ID 68278
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Monday, April 11, 2011 12:37:00 PM

QC:



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Item ID:

D3391-023

Accept

Setup Start



**Revision ID:** 

Item Name:

Mid Tube Assembly

4/11/2011 **Start Date:** 

Start Qty: 1.00

Req'd Qty: 1.00 Required Date: 4/15/2011



Cust Item ID:

**Customer:** 

Reference:

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Α	pprovals:	

Process Plan: \_\_\_\_\_

Date: Date: Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop

Stop

Sequence ID/

Operation

Set Up/

Tool ID

Tool # Plan

Accept

Reject Qty

Reject Insp. Number Stamp

Work Center ID

Description

**Run Hours** 

Qty Code

11-Open .375" holes to .438" \*\*\*do not open fwd saddle holes\*\*\*

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia-

19-Deburr and blow out all chips from inside tube

11-4-13

W/O:		WORK ORDER CHANGES							
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Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

4/11/2011

Start Qty: 1.00

Required Date: 4/15/2011

Req'd Qty: 1.00



Cust Item 1D:

**Customer:** 

Reference:

Approvals:

QC:

Process Plan:

Date:

Date:

Tooling: SPC (Y/N):

Date: Date: Run

Start

Stop



Sequence 1D/ Work Center ID

110

Quality Control

HandFinish

Hand Finishing

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ **Run Hours** 

0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

120

Chemical Conversion Coat per QSI005 4.1

0.00

Memo

0.00

130

Quality Control

QC3-Inspect Part Finish

Memo

0.00

0.00

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W/O:		WORK ORDER CHANGES								
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Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

Required Date: 4/15/2011

4/11/2011

QC:

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

Date: Date:

**Tooling:** 

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Run

Accept

Qty

Start

Reject

Qty

Stop

Reject

Number



Insp.

Stamp

Sequence ID/ Work Center ID

140

Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours** 

0.00

0.00

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours) A/R Sikaflex exp:

150

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

Memo

0.00

0.00

0.00

160

Skidtubes Skidtubes

Skidtubes

Memo

1-Weld crossbolt spacer as per dwg D3391 & OSI 004

2-grind weld flush

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W/O:	WORK ORDER CHANGE					ES 1				
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Item ID:

D3391-023

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Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

4/11/2011 **Start Date:** Required Date: 4/15/2011

QC:

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

**Customer:** 

Reference:

Approvals:

**Process Plan:** 

Date:

Date: \_\_\_\_\_

Tooling:

SPC (Y/N):

Date:

Run

Start

Stop



Sequence ID/

Work Center ID

170

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Memo

Set Up/ **Run Hours** 

2 Moules

Date:

**Tool ID** 

Tool# Plan

Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

180

Quality Control

QC5- Inspect part completeness to step on W/O

185

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

Memo

0.00

AND REALODINE AS PER PAR09-043

0.00

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W/O:		WORK ORDER CHANGES								
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Item ID:

D3391-023

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

4/11/2011

Start Oty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

**Tool ID** 

Reference:

A	pp	ro	va	ls:

Date:\_\_\_\_\_

Tooling:

Date:

Run

Accept

Qty

Start

Reject

Number

Required Date: 4/15/2011

Date:\_\_\_\_\_

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Tool # Plan

Code

Stop

Reject

Qty

Insp.

Stamp

Sequence ID/ Work Center ID

190



Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QS1005 4.3-Alum

m116964.

START TIME: //.30
OVEN TEMPERATURE:

0.00

0.00

FINISH TIME:

200

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

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W/O:		·····	\٨/	ORK ORDER CHANC	250					, .
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#### Work Order ID 68278

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Item ID:

D3391-023

Accept



Setup Start



**Revision ID:** 

Mid Tube Assembly Item Name:

Required Date: 4/15/2011

Stop

**Start Date:** 

4/11/2011

Start Qty: 1.00 Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop

Sequence ID/

Work Center ID

QC:

Date: \_\_\_\_\_

SPC (Y/N):

Date:

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

210

Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours** 

0.00

0.00

Memo

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

5- ON 2ND SIDE ONLY rearn out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

220

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Quality Control

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Work Order ID	6827
Monday, April 11, 2011	12:37:0

Packaging



<b>Work Order ID 68278</b> <i>Monday, April 11, 2011 12:37:00 PM</i>										
Item ID: Revision ID:	D3391-023	· · ·	<del></del>	Accept			s s	etup Sta		
Item Name: Start Date: Required Date: Reference:	Mid Tube Ass 4/11/2011 4/15/2011	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item I Customer:	ID:				
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Sequence ID/ Work Center II 230 HandFinish Hand Finishing	D	Operation Description  HandFinishing  Memo  Arrstall Insert	s as per Dwg	Set Up/ Run Hours 0.00	Tool ID	Tool # Plan Code	Accept Qty	Reject Qty	Reject Insp. Number Stamp	TO <del>-</del> )
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250		Identify as per dwg & Sto	ock Location:	0.00			11_b	4/21	£	

W/O:		WORK ORDER CHANGES								
DATE	STEP		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
11/04/50	230	Assemble with D3564-5 (werrphite) B66551. D3566-5 (GASKET) B66552.	J.L.	11/01/20	λ/					
Moulso	230	Assemble with NASINGCO332R/M117291 (WAShers) AN3C-4A/M116924 (bolts)	JU	11/04/20	X12 X12					

Part No:		_PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

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#### Work Order ID 68278

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Item ID:

D3391-023

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

4/11/2011 **Start Date:** 

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Required Date: 4/15/2011

QC:

Date:\_

SPC (Y/N):

Date:

Stop

Sequence ID/

**Work Center ID** 

Description

Operation

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours** 

Tool # Plan

Accept Qty Code

Reject Qty

Reject Insp. Number Stamp

260

QC

Quality Control

Memo

0.00

0.00

W/O:			W	ORK ORDER CHANGI	ES				•
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#### Picklist Print

Monday, April 11, 2011 12:37:05 PM

Work Order ID: 68278

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 4/11/2011

Start Qty: 1.00

Required Date: 4/15/2011

Date

Issued

Status

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\Box$ 07.03.20 rev F dwg IPP D 07.03.28 re-format

EC IPP E 07.10.31 ecn 1053P EC

KJ/EC 🗆

EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Qty

Issued

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty
D2500-1-100		Manufactured	No			100	Each	104.0000	1	1

Skidtube Extrusion

<u>Location</u>	<u>Lo</u>	c Qty	Loc Code
HALL		104	
(37065)		22	
50251		82	
	100	Each	0.000

D3389-1

Web

Manufactured

Manufactured

0.0000100 Each

Each

1.0000

Loc Code Location Loc Otv ST055 65989

140

	WORK ORDER CHANGES											
STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty Approval Chief Eng / Prod Mar	Approval QC Inspector					
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Picklist F	rint
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Monday, April 11, 2011 12:37:06 PM

Work Order ID: 68278

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Location

LG001

Start Date: 4/11/2011

Start Qty: 1.00

**Required Date: 4/15/2011** 

Page 2

Required Qty: 1.00

D3681-1

Spacer

D3591-1

Bushing

Insert

Manufactured

Purchased No

Manufactured

ALS4-1032-130

No

No

57350 66147

65990

160

210

Each

Loc Qty

Loc Oty

Loc Qty

2000

2000

29

29

59

22

Each

37 230 Each 2,000.000

29.0000

Loc Code

59.0000

Loc Code

20

Location ST281

117331

Loc Code

1116860

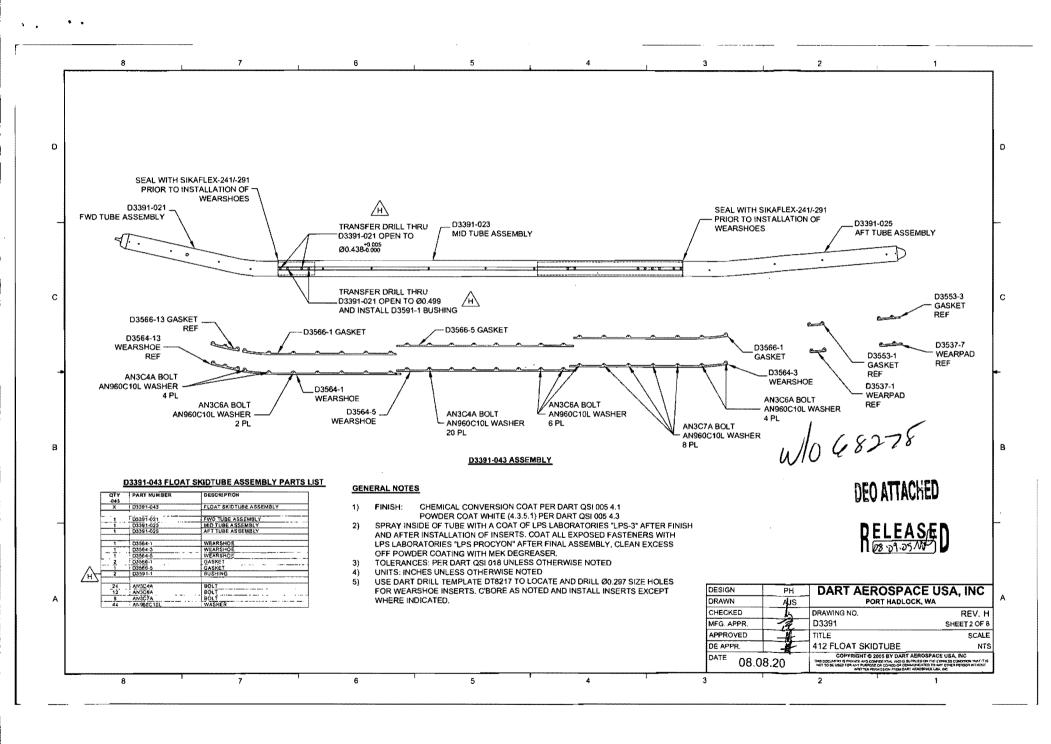
X20

		W	ORK ORDER CHAN	IGES					
STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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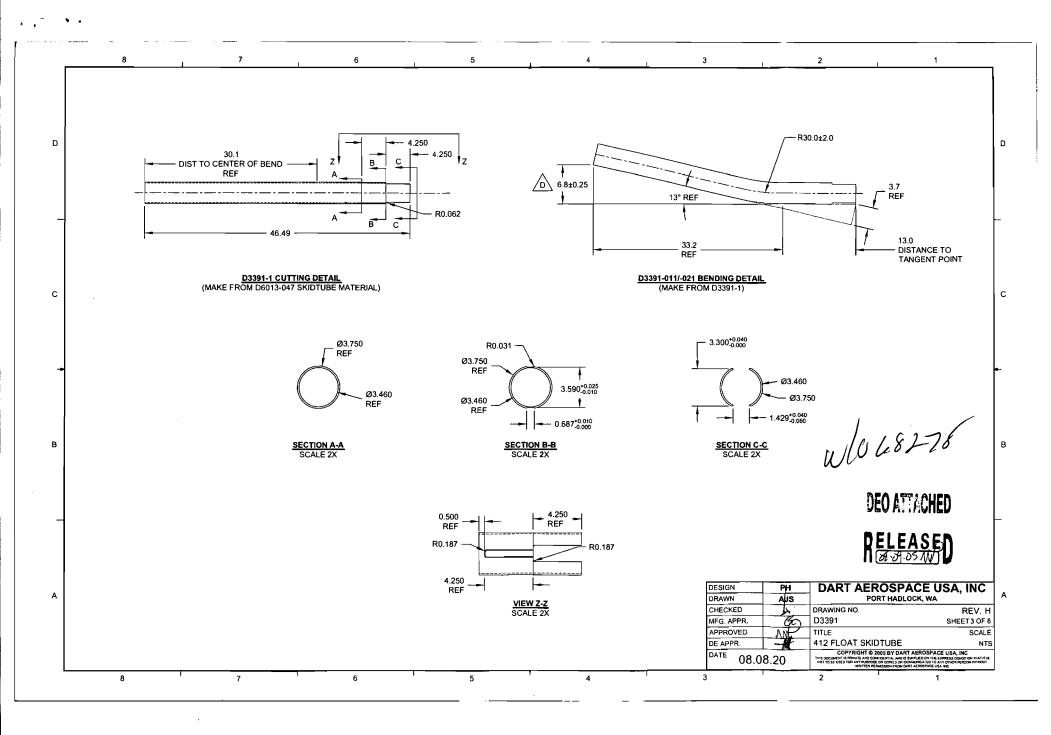
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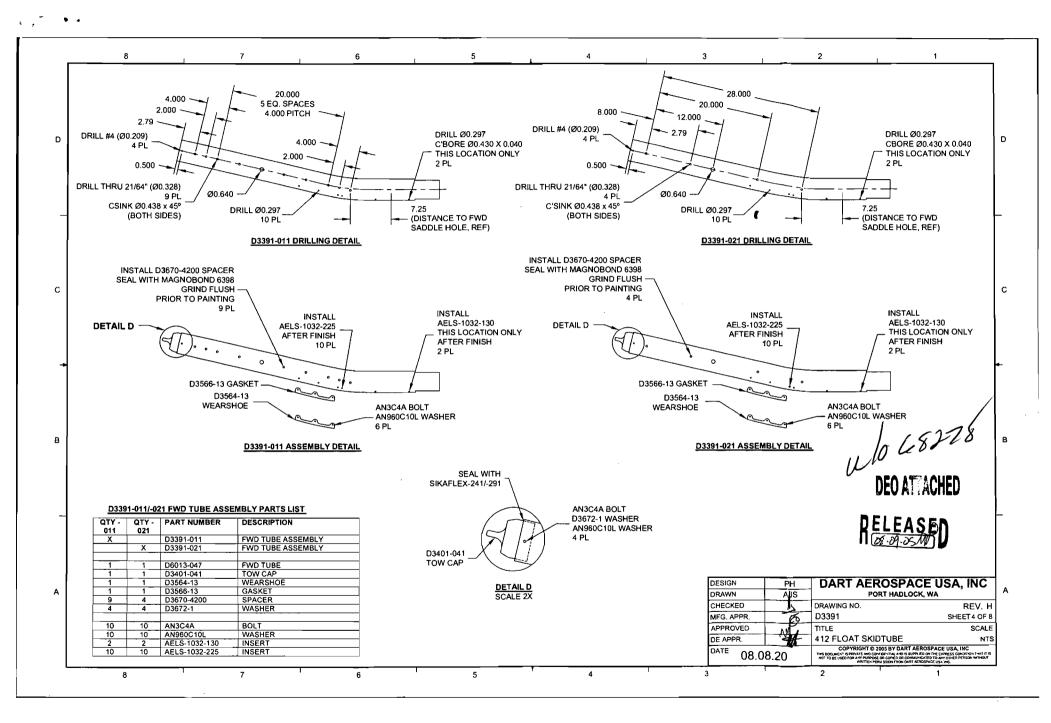
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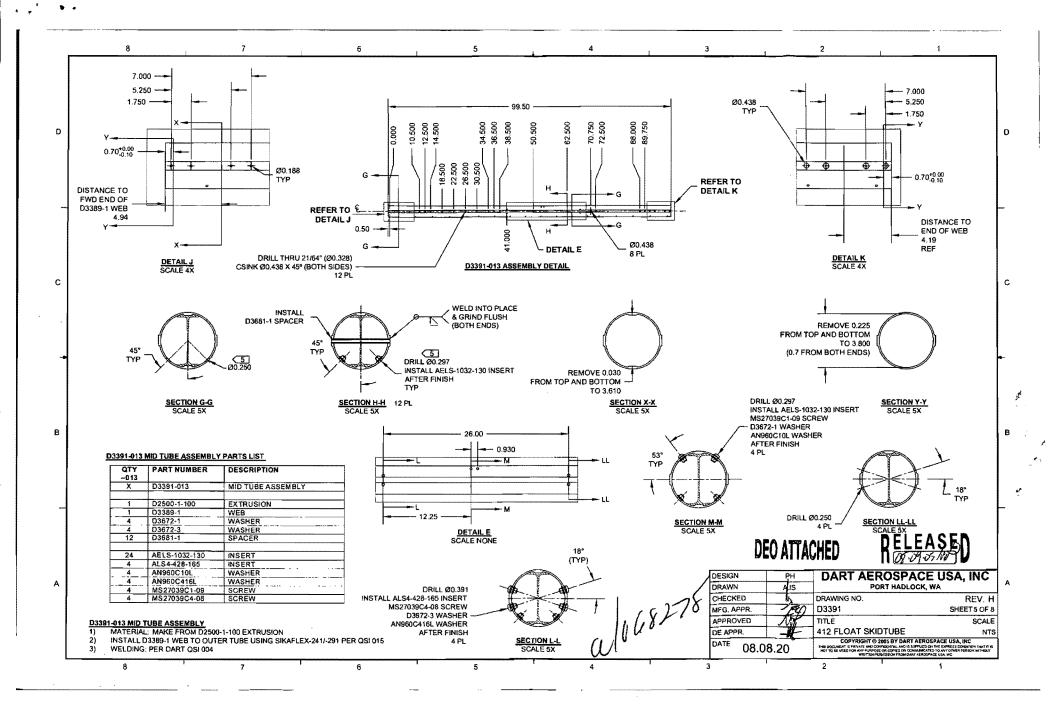
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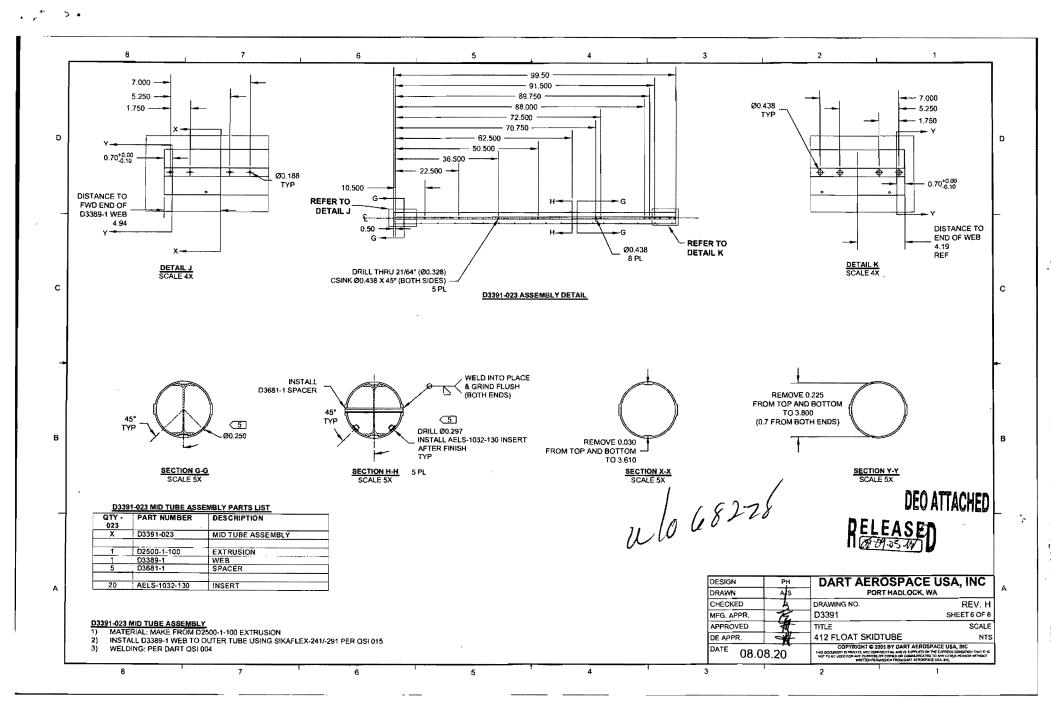
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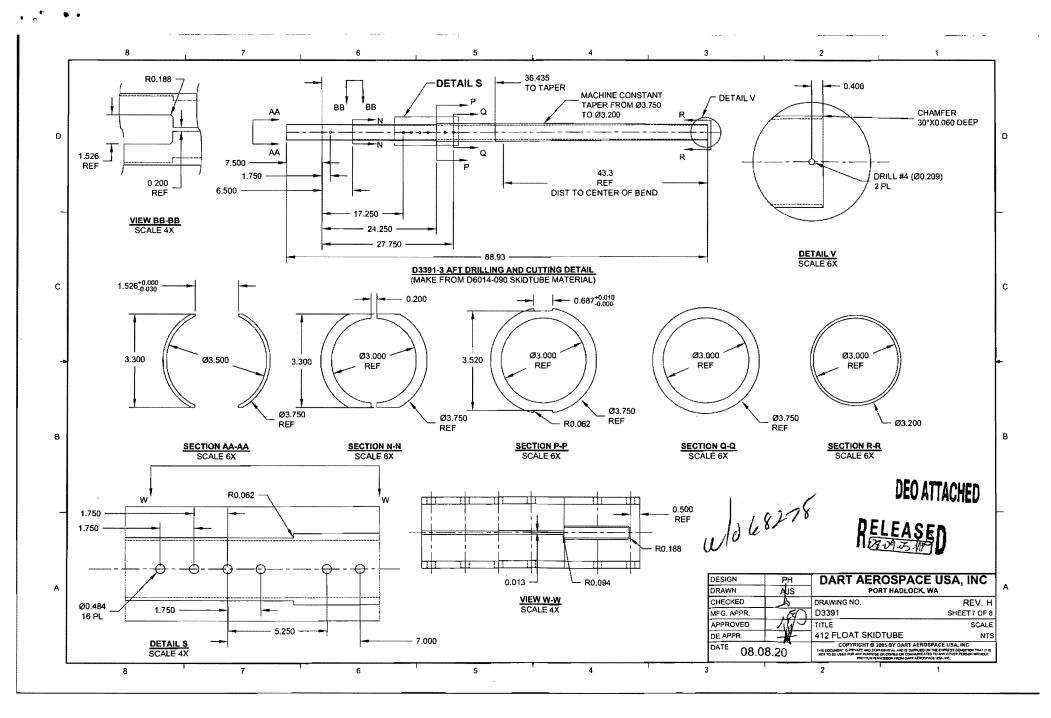
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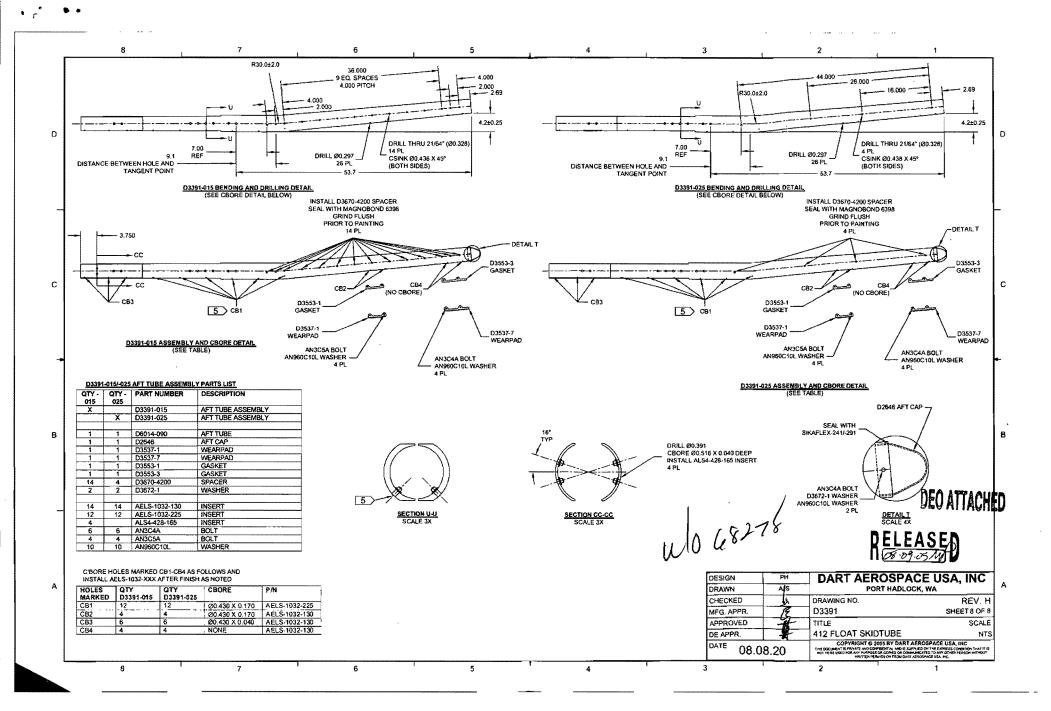


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DRAWING	NO. TITLE		REV. H	DART AEROS	PACE USA, IN	C D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOA	T SKIDTUBE	,	ENGINEER	ING ORDER	D3391-H-1	SHEET 1 OF,1	NTS
DRAWN	Q?	CHECKED	7	MFG. APPR.	δ	APPROVED My	DE APPR.	
DATE	09.09.23	DATE	04.04.24	DATE OG/	09/25	DATE 09/09/30	DATE 09/09/3	6

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### CHANGE

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A GOAT OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



WW 48278

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NO. <u>244</u>

# AWS D17.1.2001 QUALIFICATION TEST RECORD

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Name: <u>Do</u>	wheley Ellioff
Job number:	65388
Part number:	13391-023
Description:	mid tube
Welding Proce	ss: Tig[L] Mig[]
Base materiel:	allemenian
Current: AC[	] DC[ ]

## TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[ ] fail[ ] pass[ ] fail[ ]
UNACCEPTABLE	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Jat Access  Welder Barlay What	Date of Test Coupon 11-01-18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld